

## ===== WPI =====

TI - Mfg. concave metal moulds contg. uniformly dispersed ceramic grains - comprises coating master pattern having protrusions, with dispersion plating layer, forming back up shell and removing mask pattern, etc.

AB - J03243787 Mfr. comprises coating a master pattern having protrusions, with a dispersion plating layer contg. dispersed ceramic grains, forming on the dispersion coating, a back-up shell by electrocasting etc, removing the mask pattern from the ceramic film on which the back-up shell is tightly adhered and fitting the back-up shell to the concave portion at the main body of the metal mould.

- The ceramic grains are pref. SiC, TiN, TiC, WC, B4C, MO2C or Cr3C2 etc.

- USE/ADVANTAGE - Concave metal moulds contain uniformly dispersed ceramic grains. (3pp Dwg.No.0/1)

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PR - JP19900038281 19900221

PA - (SAIL ) SAILOR PEN CO LTD

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IC - B29C45/26 ;C25D1/00 ;C25D15/00

AN - 1991-364686 [50]

## ===== PAJ =====

TI - PRODUCTION OF METALLIC MOLD

AB - PURPOSE:To form a high-hardness and smooth ceramic dispersed layer on the recessed forming surface of a metallic mold by incorporating a metal plating layer in which ceramic fine particles are dispersed and a master pattern on which a backup shell is formed into the surface and removing the pattern by dissolution.

- CONSTITUTION:A metallic mold 4 provided with a forming recessed part having a deep hole 51, a groove 52, etc., is produced. In this case, a master pattern having protrusions 11 and 12 corresponding to the hole 51 and groove 52 is made of Al. An Ni plating layer 2 in which hard ceramic fine particles of SiC, TiC, TiN, etc., are dispersed is formed on the surface of a master pattern 1, and a backup shell 3 of Ni is further closely formed thereon by electrocasting, etc. The pattern is dissolved in aq. NaOH and removed, and the remaining backup shell 3 is shaped to a specified size and incorporated into the concave part of the mold main body 4. Consequently, a plating layer having a hard and smooth surface in which the ceramic is uniformly dispersed and facilitating the release of the formed product from the mold is formed on the inner surface of the mold 4.

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PA - SAILOR PEN CO LTD:THE

IN - MASUMOTO YASUHIRO

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